USS Oklahoma City CL91 / CLG5 / CG5
Gunner's Mate Missile

Phillip R. Hays PhD LT USNR-R

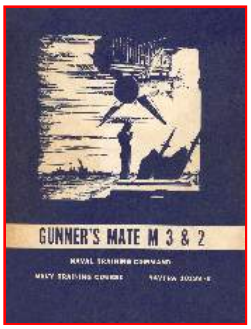
When guided missiles were introduced into the fleet the Gunner's Mate Missile (GMM) rating was created for personnel who were involved with operation, maintenance and repair of guided missile launching systems. A person could qualify for the rating by taking training courses and passing examinations based upon the contents of GMM training manuals. These books contained information for the Talos, Terrier, Tartar and ASROC missile systems, plus additional information needed for the ratings.

GMM training was broken into two phases. The new GMM striker studied for the Petty Officer 3rd Class rating (GMM3), and then advanced to Petty Officer 2nd Class (GMM2). Information for these ratings was contained in the GMM 3 & 2 training manual. If a person showed special aptitude he could advance to Petty Officer 1st Class (GMM1), and the best qualified personnel advanced to Chief Petty Officer (GMMC), using the GMM 1 & C manuals.

I scanned the entire GMM 3 & 2 and GMM 1 & C manuals cover to cover. The text was scanned into Word using optical character recognition (OCR) to reproduce the text with high clarity. The pictures were scanned into Photoshop and then inserted into the Word document. The resulting chapters were printed with the CutePDF printer driver to create the PDF files listed below. The content of the files is an accurate representation of the original books, but page layout may vary slightly from the original. It is likely that some errors were introduced by the OCR process, and also probable that Word's spelling correction "repaired" many typos in the original documents (I made an effort to keep the original spelling errors). If you see an error let me know and I will correct it.

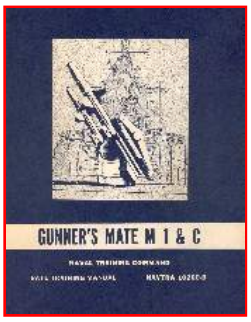
Thanks to GMM2 Rick VanHouten for loaning me the manuals so we could share them with everyone who is interested.

GUNNER'S MATE M 3 & 2 NAVTRA 10199-B 1972



- Contents Preface and Contents
- Chapter 1, page 1 The Gunners Mate Missiles Rating
- Chapter 2, page 11 Hitting a Moving Target
- Chapter 3, page 32 Principles of Missile Flight and Jet Propulsion
- Chapter 4, page 64 Missile Guidance and Control
- Chapter 5, page 101 Guided Missile Launching Systems
- Chapter 6, page 152 A Typical Gun and Missile Weapons System
- Chapter 7, page 170 Applications of Servomechanisms
- Chapter 8, page 197 Hydraulics and Pneumatics in Missile Systems
- Chapter 9, page 224 Electrical Devices Used in Launching Systems
- Chapter 10, page 248 Explosives Pyrotechnics and Magazines
- Chapter 11, page 297 Small Arms, Landing Party Equipment and Demolition
- Chapter 12, page 387 General Maintenance
- Chapter 13, page 423 Common Test Equipment and Logical Troubleshooting
- Chapter 14, page 455 Launcher Checks Missile Replenishment and Servicing
- Chapter 15, page 487 Information Input and Output
- Index, page 502, Index

GUNNER'S MATE M 1 & C NAVTRA 10200-B 1972



- Contents Preface and Contents
- Chapter 1, page 1 Aiming Higher
- Chapter 2, page 16 Missile Handling and Stowing
- Chapter 3, page 51 Missile Launching Systems
- Chapter 4, page 82 Loading, Unloading and Dud-jettisoning
- Chapter 5, page 115 Electricity and Electronics
- Chapter 6, page 150 Hydraulics in Missile Launching Systems
- Chapter 7, page 205 Pneumatic Equipment and Controls
- Chapter 8, page 229 Ammunition and Magazines
- Chapter 9, page 253 Ballistics, Fire Control, and Alignment
- Chapter 10, page 297 Maintain, Repair, Adjust, Test, Overhaul
- Chapter 11, page 325 Administration and Supply
- Chapter 12, page 357 Safety
- Index, page 380 Index

Links

- Ship's history *USS Oklahoma City* and Cleveland class history.
- Information about the ship Descriptions of the ship and its systems.
- Talos missile history History of the Talos missile.
- Contact me Send me a message.

Miscellaneous

What is a "lubber?"

Copyright © 2017 by Phillip R. Hays

Last modified: *12/29/2017 02:51:34*